then transmitted.

## ABSTRACT OF THE DISCLOSURE

Synchronization symbol insertion section 102 inserts a synchronization symbol into a signal 5 digital-modulated by modulation section 101. 0 symbol insertion section 103 inserts a 0 symbol into the signal with the synchronization symbol inserted. The signal with the synchronization symbol and 0 symbol inserted in this way is sent to IFFT section 104 to be subjected to an IFFT calculation. Then, guard interval insertion 10 section 105 inserts a guard interval into the IFFTtransformed signal waveform. Then, the signal with the guard interval inserted in this way is D/A-converted by D/A converter 106. The D/A-converted signal is 15 subjected to normal radio transmission processing and